

TELEPHONE SETS 701 AND 711 TYPES INSTALLATION

1.00 INTRODUCTION

1.01 This section covers the installation of the 701- and 711-type telephone sets. Typical installations are shown in Fig. 1 and 2. Connections are shown in the appropriate C section covering connections for the 701B, 701D, and 711B telephone sets.

1.02 This section is reissued to:

- Add information on installation of 1610A inductor.
- Add information on installation of cold cathode tube.
- Change information on arrangement for portable installation.

Due to extensive changes, marginal arrows have been omitted.

2.00 GENERAL

2.01 A 105- to 120-volt ac receptacle is required for the dial-light transformer. This receptacle should be on a circuit that is not controlled

by a switch. Either a 2012A or a KS-16184, List 3 transformer may be used.

2.02 For proper illumination of the dial, the length of the wire between the transformer and the telephone set should not exceed 150 feet of standard inside wire. Do not use a 25-foot mounting cord because of added resistance. One transformer is required per dial light.

2.03 When a ringer is required, an E1A, E2A, or F1A ringer should be installed with each 700-type telephone set. These ringers also serve as a connecting block for the mounting cord.

- Installation information for these ringers is given in the appropriate C section for the ringer involved.

- Use a 146A adapter when mounting an E1A or E2A ringer over a 63A bracket or on a standard electrical outlet box.

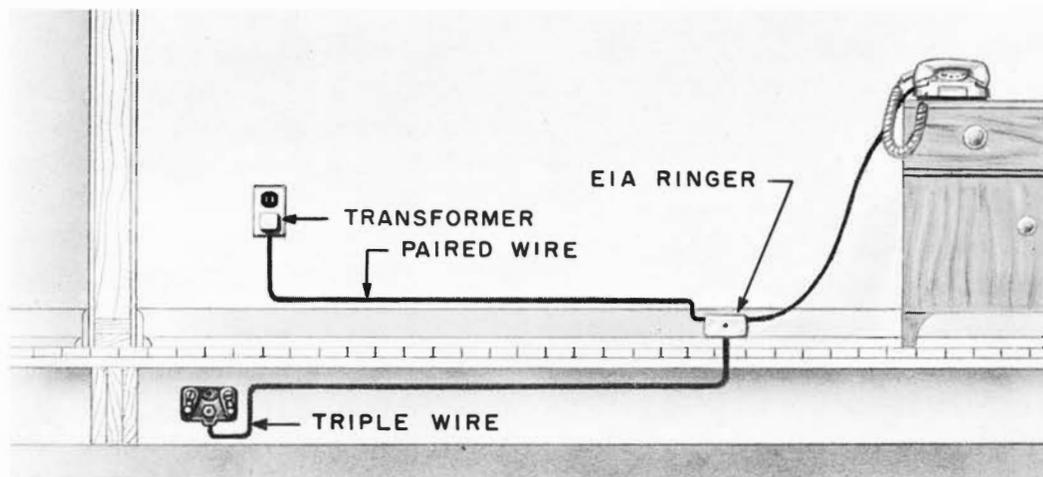


Fig. 1 — Typical Installation of 701B Telephone Set

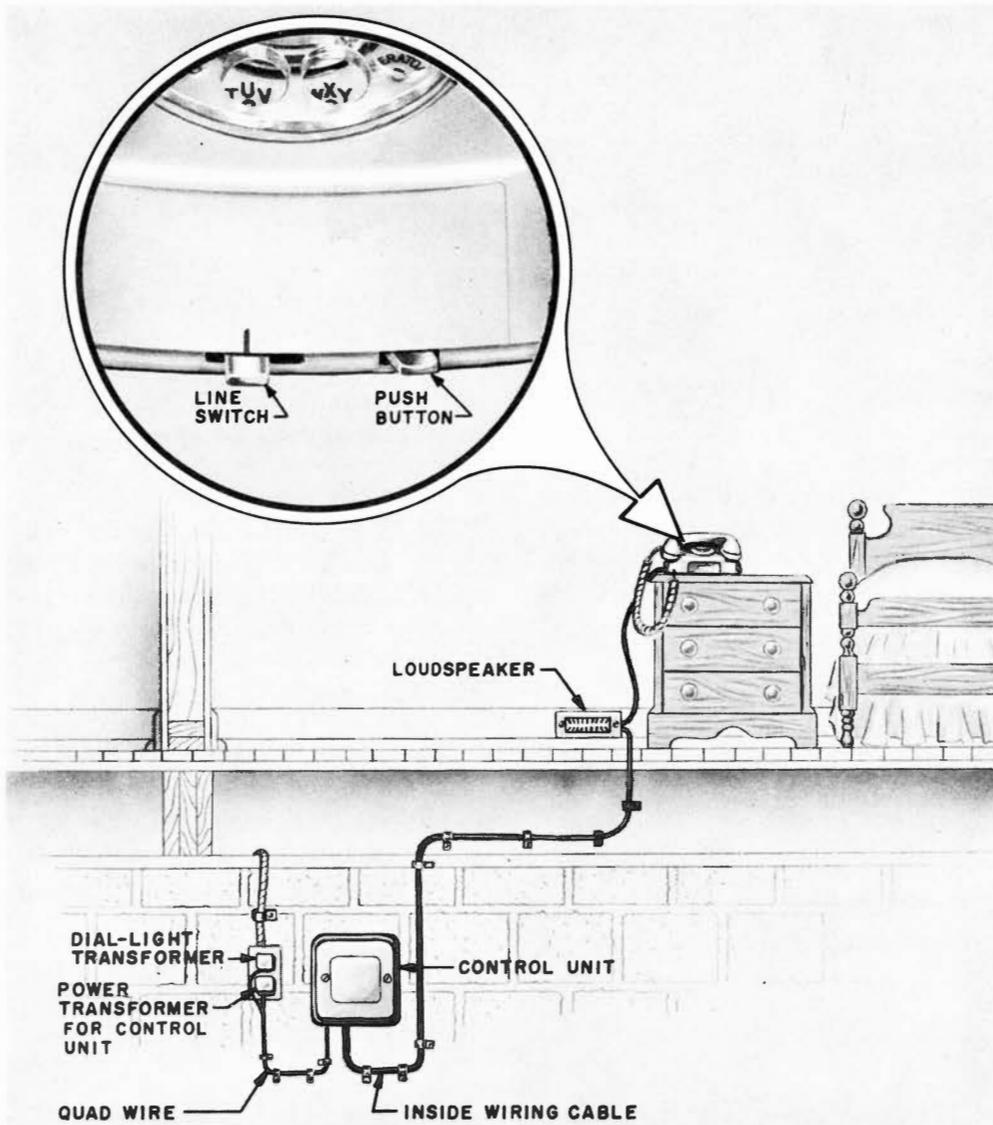


Fig. 2 – Installation of 711B Telephone Set As Used With Home Interphone System

2.04 At the request of the customer, the ringer may be omitted except when it is the only ringer on the line. Where no ringer is used, the mounting cord of the 701-type telephone sets should be terminated on a 42A connecting block, and the mounting cord of the 711B telephone set should be terminated on 44A connecting blocks.

2.05 Where no ringer is used and tip-party identification is required, a 1610A inductor shall be installed in the Princess set as shown in Fig. 3, 4, and 5. The inductor is ordered separately and includes the wedge as shown in Fig. 3. The procedure for installing the inductor is as follows:

1. Remove housing from set.
2. Loosen dial and lay it aside to provide more working space.
3. Remove mounting cord stayhook from slot inside of set base.
4. Insert inductor in the position shown in Fig. 4 and 5, making certain that the lip of the inductor base is under the edge of the terminal strip.
5. After placing the inductor firmly against the terminal strip, insert the wedge between the side of the set base and the base of the inductor. This is most easily accomplished

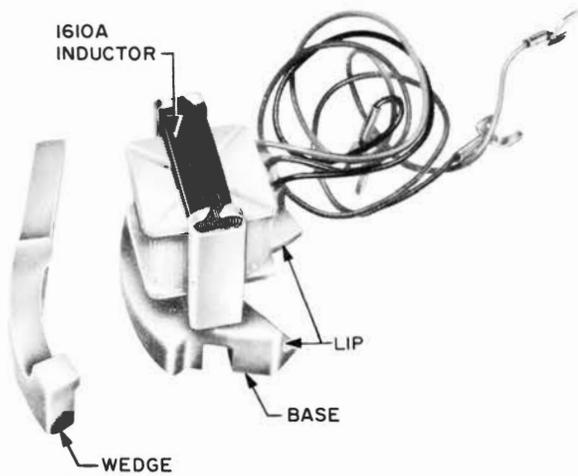


Fig. 3 - 1610A Inductor

by placing the wedge in a position where the curvature of the wedge and the set base coincide, then exerting downward pressure on the wedge beginning at the end nearest to the switchhook assembly and continuing until the wedge is secured tightly in place.

6. Replace mounting cord stayhook in slot and connect the leads for the class of service desired.

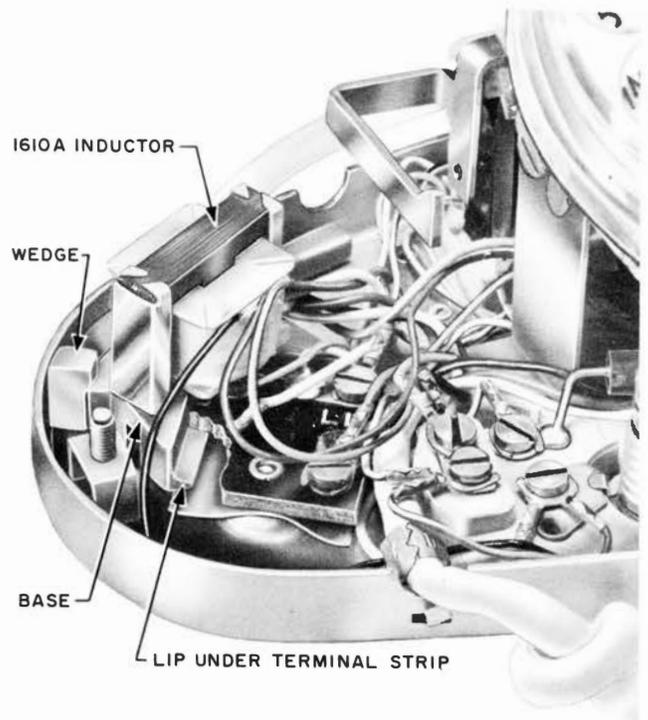
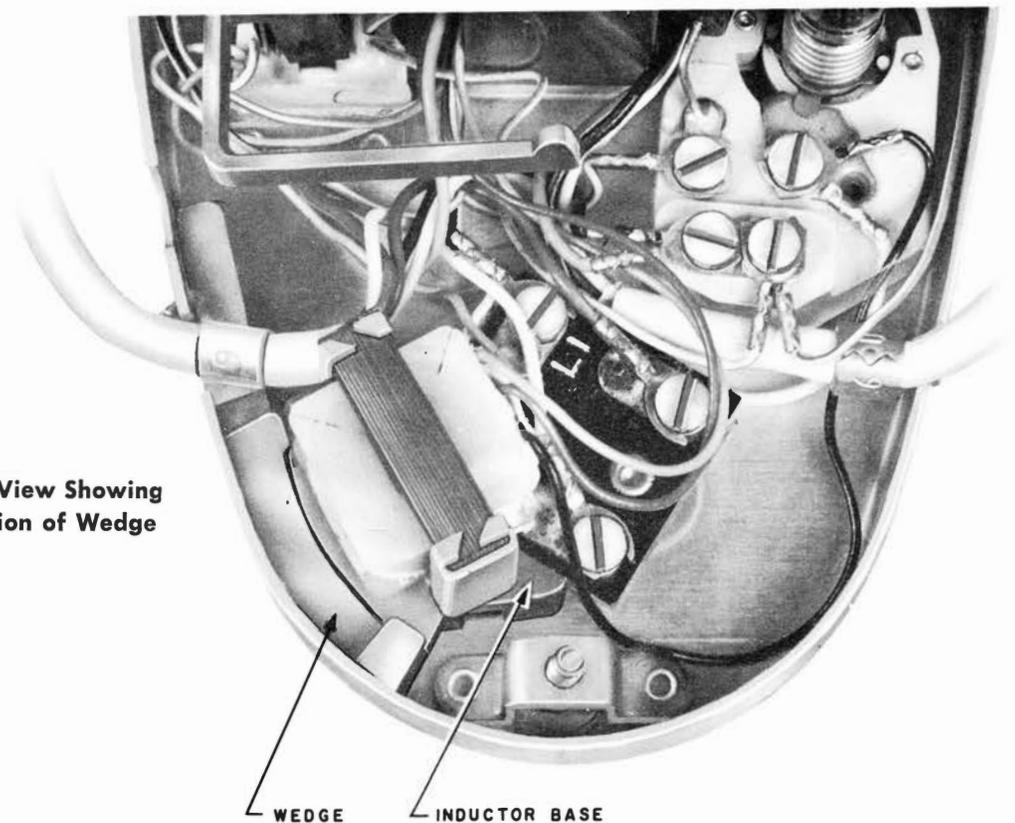


Fig. 4 - Location of 1610A Inductor

7. Replace dial and housing (Fig. 3, 4, and 5).

Fig. 5 - Top View Showing Location of Wedge



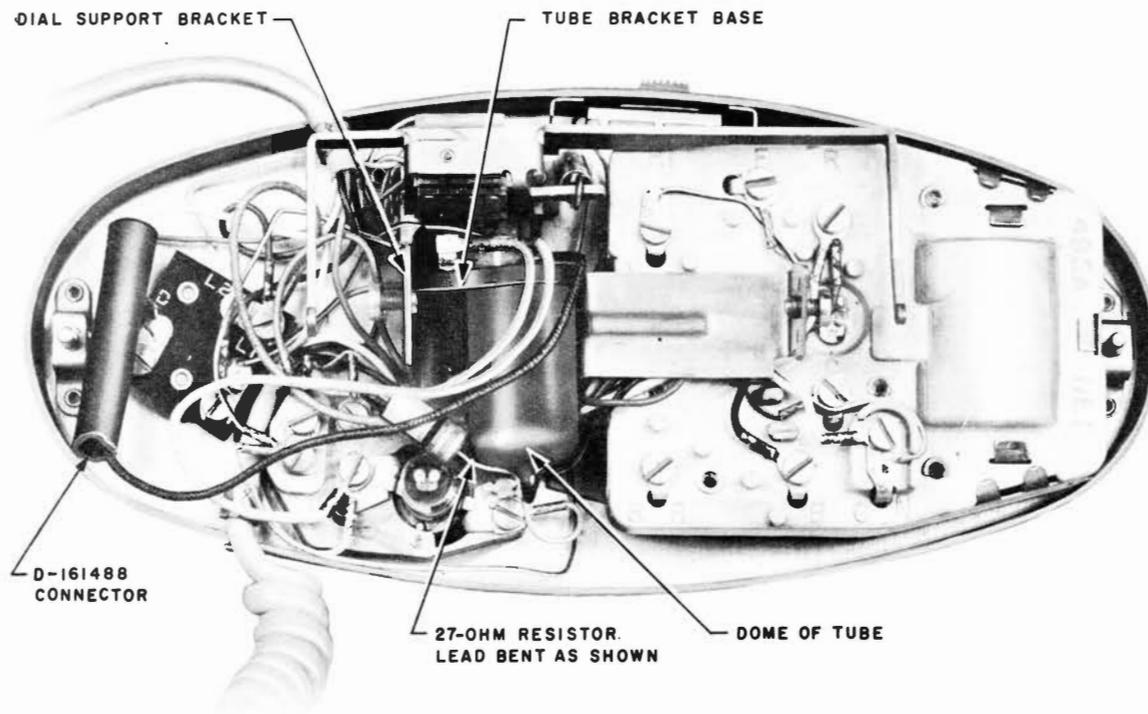


Fig. 6 — Location of Cold Cathode Tube in 701B Telephone Set

2.06 If 4-party selective or 8-party semiselective service is desired, a 425A or 426A cold cathode tube is installed in the base of the 701B telephone set in the following manner :

1. Remove plastic housing.
2. Remove dial.
3. Remove and discard the mounting screw furnished as part of the electron tube.
4. Redress terminal 2 end of 27-ohm resistor and resistor lead toward night-light socket.
5. Check to see that lead on terminal end of resistor does not touch dial support bracket.
6. Place the tube in space below dial with dome of tube toward night-light socket and base of plastic tube bracket against dial support bracket (see Fig. 6).
7. If sufficient clearance for the dome of the tube was provided in step 4 above, the lower end of the tube bracket base will drop into place forward of the switch assembly base.
8. Dress tube leads up and across tube between night-light and dial support bracket.
9. Carefully replace the dial, redressing wires as required, so that the glass portion of the tube is *not* held firmly after the dial is secured in place.
10. A D-161488 connector assembly is required and must be ordered separately. Connect the leads from the tube as shown in the C Section entitled 701B Telephone Sets, Connections.
11. Check to see that no wires are fouled in the switch arms, and replace the plastic upper housing.

3.00 INSTALLATION

3.01 In so far as possible, be guided by the customer's wishes in placing apparatus. However, consider the following:

- Safety for yourself, customer, and maintenance personnel.
- Availability of power outlet for transformer.
- General appearance of installation.

3.02 When installing a dial-light transformer, make certain that telephone protector and/or signaling ground conductor is connected to the best ground available as outlined in the C Section entitled Protector and Signaling Grounds. If the best ground suitable is a telephone ground rod, the telephone ground rod shall be bonded to the power service ground electrode in the same premises as outlined in the C Section entitled Protector and Signaling Grounds.

3.03 Damage to the transformer may result if a sufficient difference of potential is allowed to develop between power and telephone grounds. Because a difference of potential appears between the windings of the transformer, voltage from a lightning surge could break down the insulation between the windings.

4.00 PORTABLE INSTALLATION

4.01 For portable installation of the 701-type telephone set, arrange as follows:

- Replace 6-conductor mounting cord with 4-conductor cord terminating in 283B plug.

- Extend tip, ring, ground, and transformer leads to 404B jack.



On 2-party tip stations requiring ground identification, be sure that jacks and plugs are installed in accordance with the C Section entitled Jacks and Plugs.

4.02 The 711B telephone set is not intended for portable installation.

4.03 Where only one dial-light telephone set is installed, one transformer may be multiplied to two or more jacks.

4.04 Where two or more dial-light telephone sets are installed, an individual transformer must be connected to each jack.

5.00 SIX-POINT CHECK

As an aid in satisfying the customer and providing trouble-free service, the following six points should be verified before leaving the job.

- Adequate telephone service on premises.
- Proper operation of all station equipment.
- Customer's understanding of proper use of equipment.
- Customer's understanding of feature controls such as ringer adjustments, light switches, line switches, etc.
- Correct telephone number on station number card.
- Over-all appearance of installation.